

# ASSESSMENT DAY

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Mary Karl College of Workforce and Continuing Education  
School of Occupational Apprenticeships  
Plumbers and Pipefitter Apprentice  
November 5, 2020

Strengths

Challenges

Recommendations

# Academic Assessment

	LEVEL	FOCUS	CONDUCTED BY	FREQUENCY
<b>Academic Success Committee</b>	Program	<ul style="list-style-type: none"> <li>Quality of assessment practices</li> </ul>	Committee of peers	Years 1 & 2
<b>Instructional Program Review</b>	Program / Cluster	<ul style="list-style-type: none"> <li>Enrollment, retention, completion</li> <li>Industry certifications and job placement</li> <li>Program budget and staffing</li> <li>Advisory committees</li> <li>Curriculum changes</li> </ul>	Committee of peers	Year 3
<b>Assessment Day</b>	Course/ Program	<ul style="list-style-type: none"> <li>Enrollment by demographics</li> <li>Graduation and retention</li> <li>Average class size</li> <li>Course success rate</li> <li>Placement rate</li> <li>SLOs, PLOs and ILOs</li> </ul>	Program Chair and Faculty	Years 1, 2, 3

# Programs

[1070 - Plumbers and Pipefitter Apprentice - Union](#)

# Last Assessment Day Action Items

## Plumbers and Pipefitter Last Assessment Day: 4/14/2020

- Marketing campaign featuring the different opportunities as plumbers (trade) utilizing the grant;
- Continue to improve the Math course success rates
- Attend the Trades Women Build Nations conference, if offered;
- Model for National Apprenticeship Week, and bring recognition to the program, posters to attract female students

# Plumbers and Pipefitter Apprentice #1070 Program Learning Outcomes

Graduates of the program will be able to:

**PLO 1**: Demonstrate the ability to follow rules, building codes, and all state and federal safety regulations.

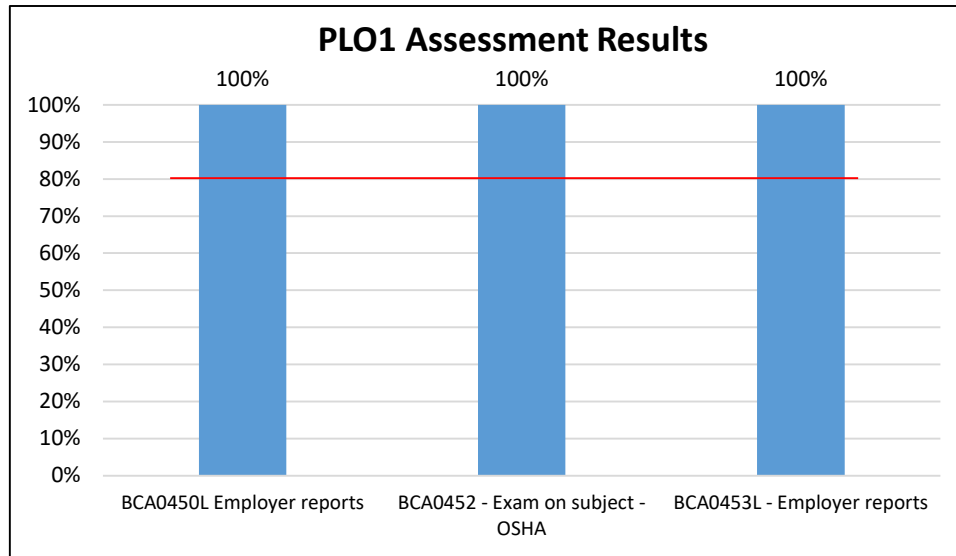
**PLO 2**: Demonstrate proper usage of different tools, equipment, materials and products used in the trade.

**PLO 3**: Demonstrate knowledge in all aspects of the industry including but not limited to theory, application, troubleshooting and safety.

**PLO 4**: Demonstrate skills in the residential, commercial and industrial markets.

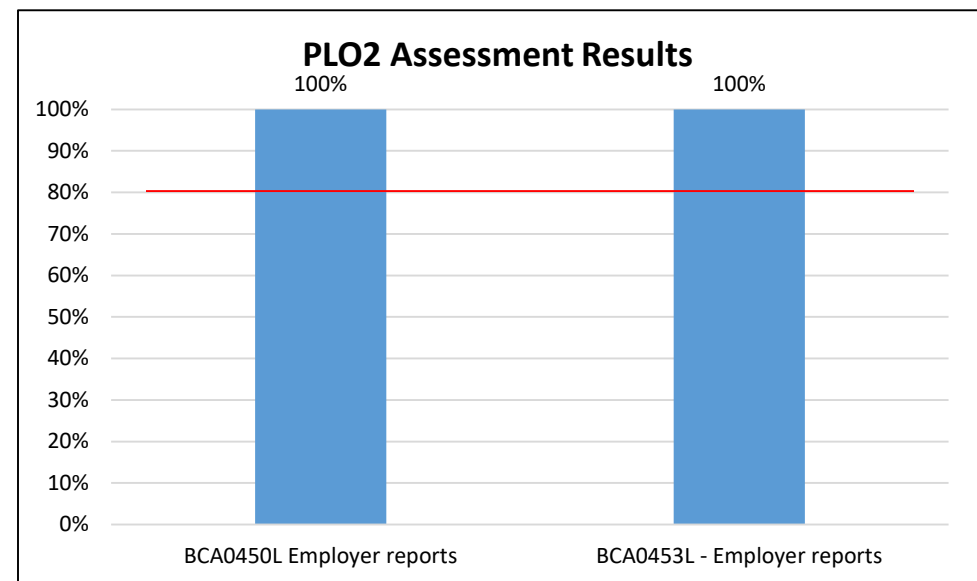
**PLO 5**: Demonstrate the ability to develop and implement projects related to the field.

## Assessment Results 2019-2020

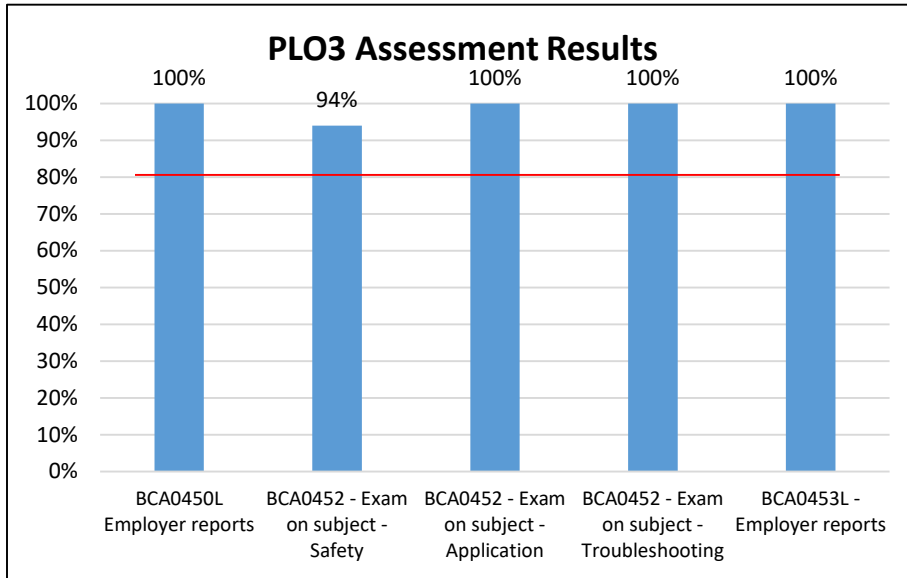


PLO1: Demonstrate the ability to follow rules, building codes, and all state and federal safety regulations. *80% of student will pass the OSHA. 80% of students will achieve satisfactory employer reports.*

PLO2: Demonstrate proper usage of different tools, equipment, materials and products used in the trade. *Target: 80% of students will achieve satisfactory employer reports.*

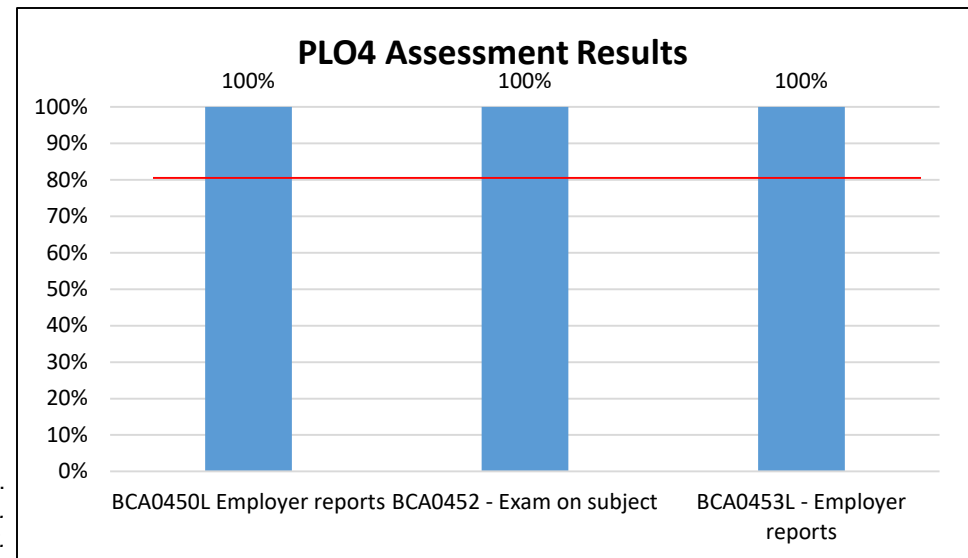


# Assessment Results 2019-2020



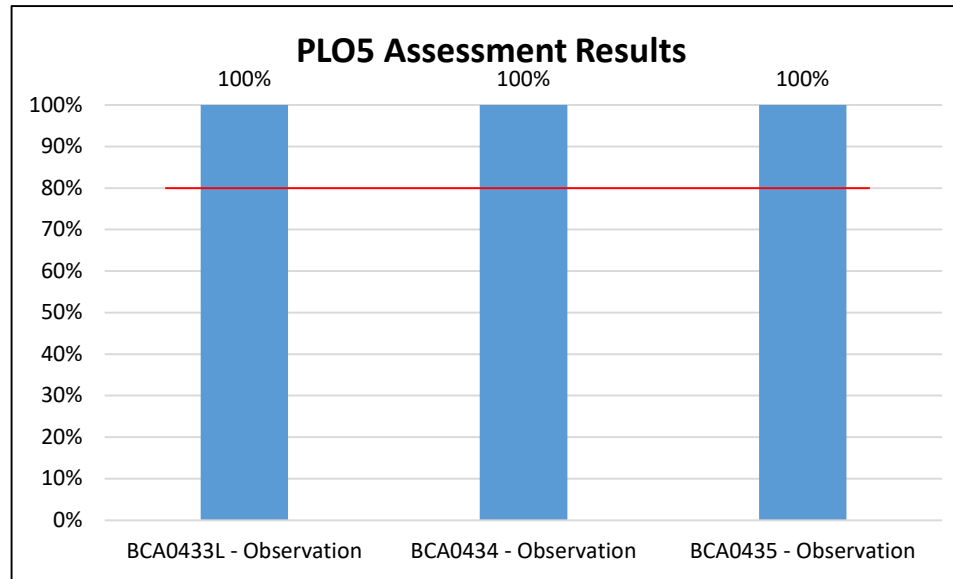
PLO3: Demonstrate knowledge in all aspects of the industry including but not limited to theory, application, troubleshooting and safety. *Target: 80% of students will achieve satisfactory employer reports. 80% of student will pass exam on subject.*

PLO4 Demonstrate skills in the residential, commercial and industrial markets.  
*Target: 80% of students will achieve satisfactory employer reports.  
 80% of student will pass exam on subject.*





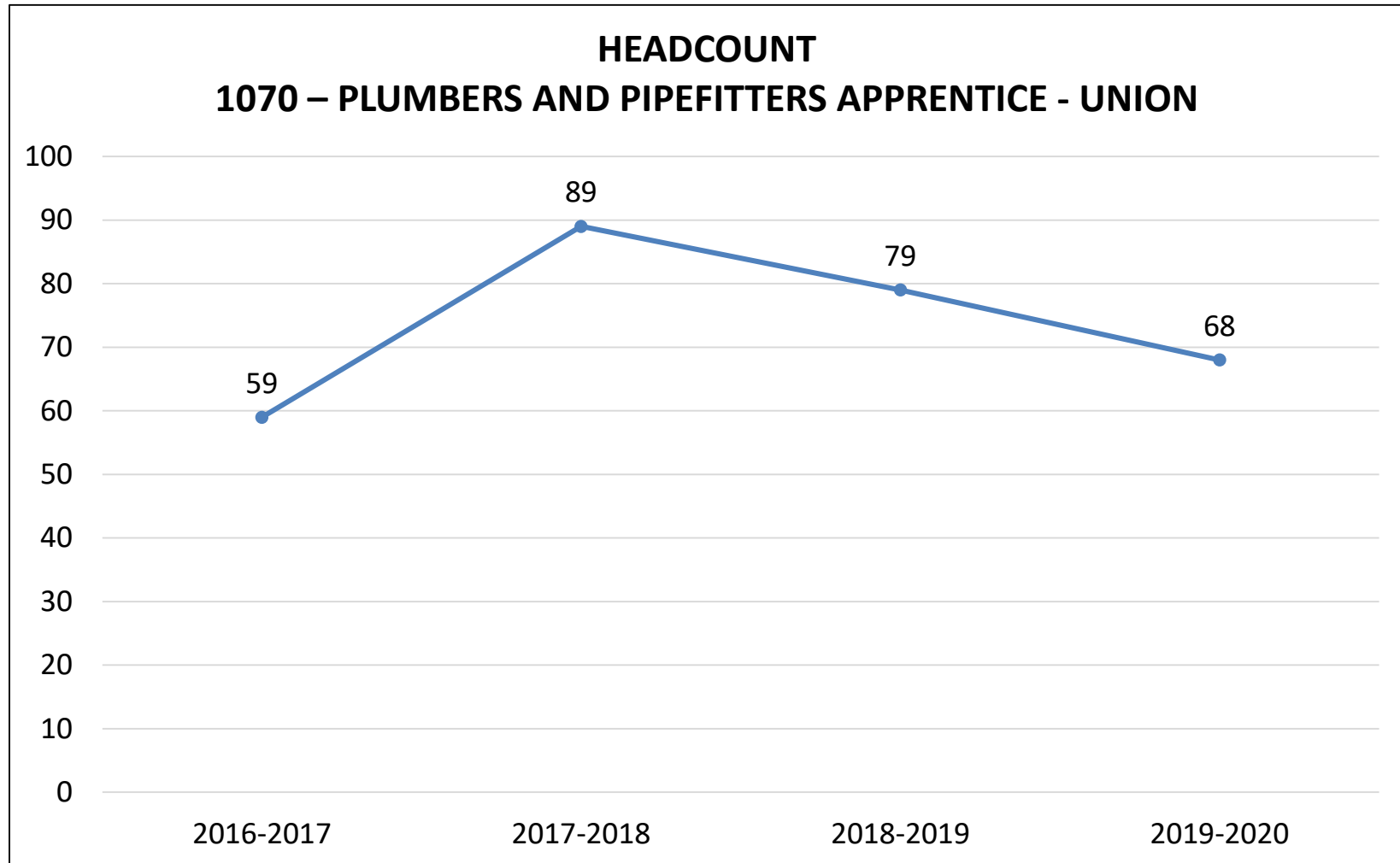
## Assessment Results 2019-2020

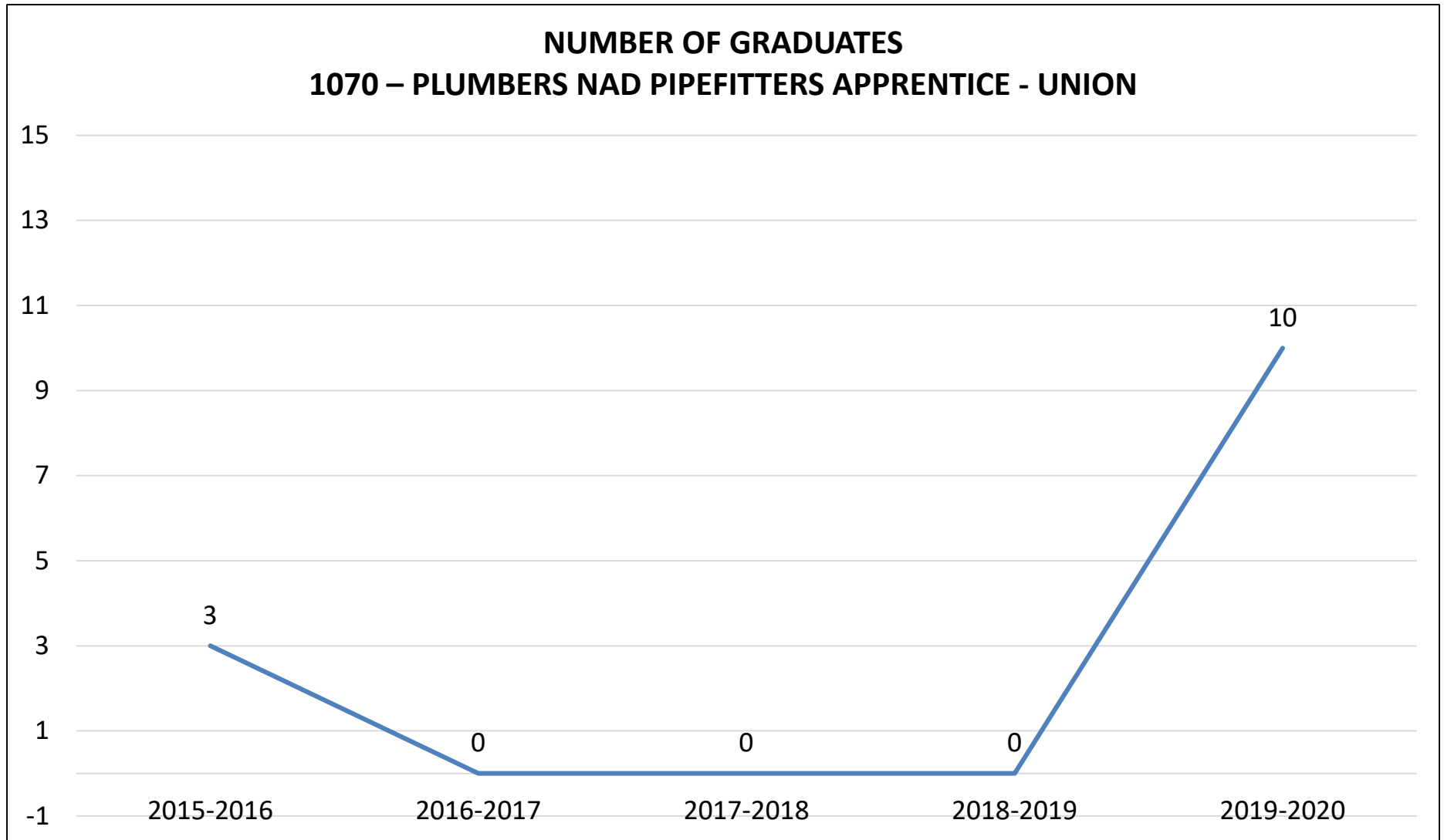


PLO5: Demonstrate the ability to develop and implement projects related to the field.  
*Target: 80% of students will achieve 80% or higher in all assessment measures*

## Assessment Data Program vs. Institutional Learning Outcomes

Program	Critical/ Creative Thinking		Communication		Cultural Literacy		Information and Technical Literacy	
	18/19	19/20	18/19	19/20	18/19	19/20	18/19	19/20
<b>1070 – PLUMBERS AND PIPEFITTERS APPRENTICE - UNION</b>	0%-100%	100%	0%-100%	100%	0%-100%	100%	0%-100%	100%

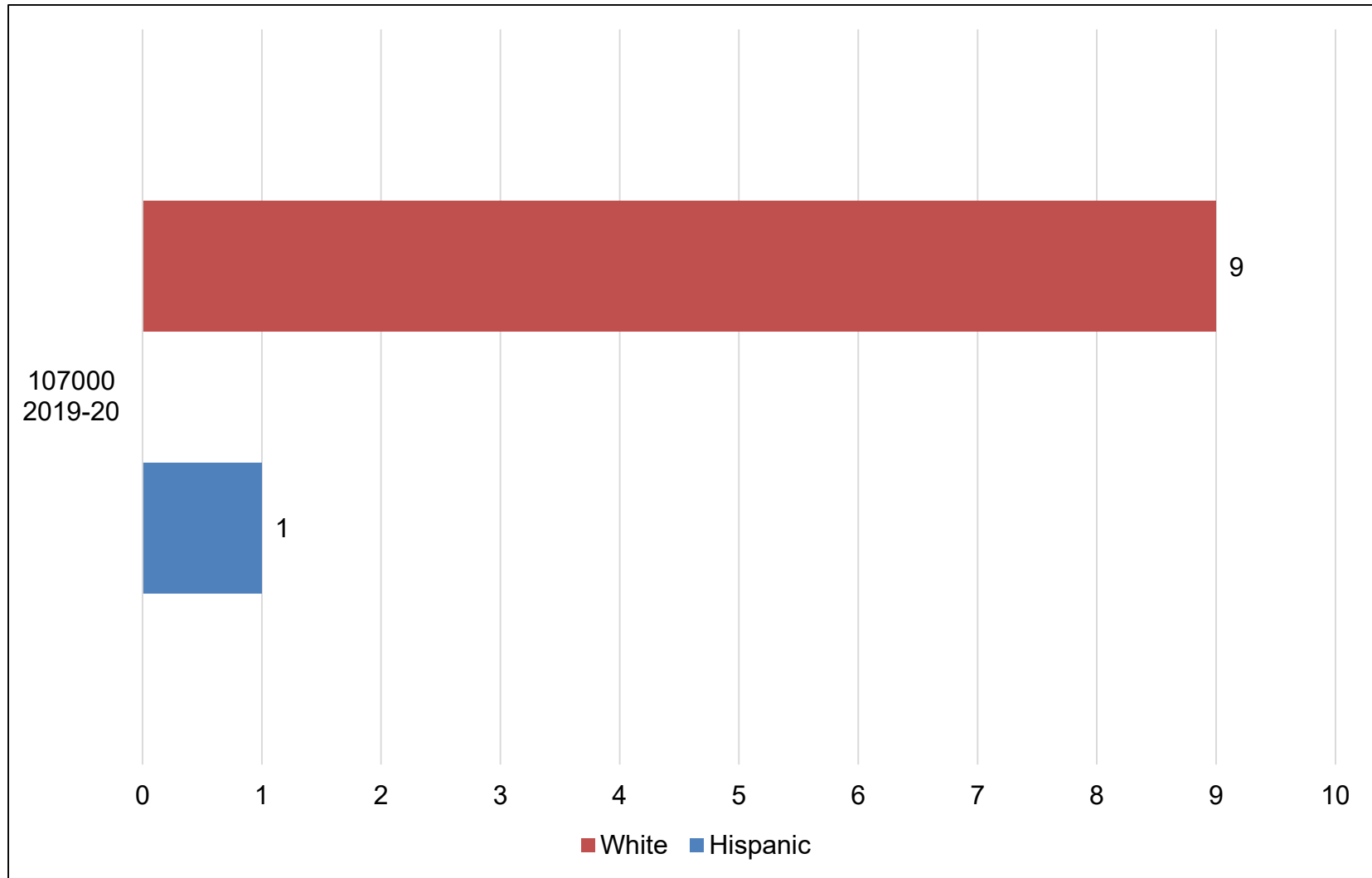




Source: IR Program Assessment Data

# Number of Graduates by Race/Ethnicity

## Occupational Apprenticeship – 1070 - Plumbers and Pipefitter Apprentice - Union



## Time to Degree

Major	Average of Years to Completion
107000 – Plumbers and Pipefitter - Union	4.6

## Retention Rates

Program and Year		Registered	Exclusions	Adjusted Cohort	Retained by DSC		Retained by Program		Total Retained %
					N	%	N	%	
<b>1070 Plumbers and Pipefitter Apprentice - Union</b>	<b>2012</b>	<b>13</b>	<b>3</b>	<b>10</b>	<b>0</b>	<b>0%</b>	<b>10</b>	<b>100%</b>	<b>100%</b>
	<b>2013</b>	<b>10</b>	<b>4</b>	<b>6</b>	<b>0</b>	<b>0%</b>	<b>6</b>	<b>100%</b>	<b>100%</b>
	<b>2014</b>	<b>6</b>	<b>5</b>	<b>1</b>	<b>0</b>	<b>0%</b>	<b>0</b>	<b>0%</b>	<b>0%</b>
	<b>2015</b>	<b>25</b>	<b>0</b>	<b>25</b>	<b>0</b>	<b>0%</b>	<b>20</b>	<b>80%</b>	<b>80%</b>
	<b>2016</b>	<b>35</b>	<b>0</b>	<b>35</b>	<b>0</b>	<b>0%</b>	<b>31</b>	<b>89%</b>	<b>89%</b>
	<b>2017</b>	<b>67</b>	<b>0</b>	<b>67</b>	<b>1</b>	<b>1%</b>	<b>48</b>	<b>72%</b>	<b>73%</b>
	<b>2018</b>	<b>60</b>	<b>0</b>	<b>60</b>	<b>0</b>	<b>0%</b>	<b>45</b>	<b>75%</b>	<b>75%</b>

Registered - Includes all students enrolled in the fall term of the specified year, with the specified program as their primary major.

Exclusions - Includes students who are deceased or graduated fall of the specified year or the following spring or summer.

Not retained - Students who were not registered the following fall term.

Retained by DSC - Students who were still registered at DSC the following fall but with a different primary major.

Retained by Program - Students who were registered the following fall with the same primary major.

Source: IR Program Assessment Data

## Retention Rates by Race/Ethnicity

Major	Cohort	Race/Ethnicity	Registered	Exclusions	Adjusted Cohort	Retained by Program	
						N	%
1070 Plumbers and Pipefitter Apprentice - Union	FA16 to FA17	Asian	1	0	1	0	0%
		Black	2	0	2	2	100%
		Hispanic	2	0	2	2	100%
		Two or More Races	1	0	1	1	100%
		White	27	0	27	24	89%
	FA17 to FA18	Am. Ind	1	0	1	1	100%
		Black	3	0	3	2	67%
		Hispanic	4	0	4	4	100%
		Two or More Races	1	0	1	1	100%
		Unknown	3	0	3	3	100%
		White	55	0	55*	37	67%
	FA18 to FA19	Am. Ind	1	0	1	1	100%
		Asian	1	0	1	1	100%
		Black	2	0	2	2	100%
		Hispanic	6	0	6	4	66.7%
		Two or More Races	1	0	1	1	100%
		Unknown	4	0	4	2	50%
		White	45	0	45	34	75.6%

*Retention of Underserved Populations: 56.25% Black, 57.95% Hispanic, and 73.08% Unknown*

*\*one or more students retained by DSC*

Registered - Includes all students enrolled in the fall term of the specified year, with the specified program as their primary major.

Exclusions - Includes students who are deceased or graduated fall of the specified year or the following spring or summer.

Adjusted Cohort - Registered students less exclusions.

Not retained - Students who were not registered the following fall term.

Retained by DSC - Students who were still registered at DSC the following fall but with a different primary major.

Retained by Program - Students who were registered the following fall with the same primary major.

Source: IR Program Assessment Data



## Retention Rates by Gender

Major	Fall Term	Gender	Registered	Exclusions	Adjusted Cohort	Retained by Program	
						N	%
1070 Plumbers and Pipefitter Apprentice - Union	2017	Female	8	0	8	7	88%
		Male	58	0	58*	40	69%
		Unknown	1	0	1	1	100%
	2018	Female	7	0	7	5	71.4%
		Male	52	0	52	39	75%
		Unknown	1	0	1	1	100%

*\*one or more students retained by DSC*

**Performance Funding - Placement Rates**  
**Workforce High Demand Occupations: 12.96%**  
**DSC Workforce High Skill/High Wage Earnings: 59.10%**

Program	Major	2013/14		2014/15		2015/16		2016/17		2017/18		Average Annual Salary
		DSC%	FCS%	DSC%	FCS%	DSC%	FCS%	DSC%	FCS%	DSC%	FCS%	
1070 Plumbers and Pipefitter Apprentices - Union	1070	100%	100%	100%	100%	100%	100%	N/A	89%	N/A	83%	N/A

Source: Florida Education Training Placement Information Program (FETPIP) :

■ Indicates the College average above the State Averages  
■ Indicates the College average same as the State Averages  
■ Indicates the College average below the State Averages




\*Currently Inactive Program

N/A - No placement data for the program.

\$\*\*,\*\*\* Less than 10 graduates found employed.

## Course Success Rates

Major and Associated Courses		2016-2017		2017-2018		2018-2019		2019-2020	
		Attempted	% Successful	Attempted	% Successful	Attempted	% Successful	Attempted	% Successful
1070 Plumbers and Pipefitter Apprentice - Union	BCA0431			1	100%	13	100%	9	100%
	BCA0431L			1	100%	13	100%	9	100%
	BCA0432	1	100%	17	94%	9	100%	9	100%
	BCA0432L	1	100%	16	100%	9	100%	9	100%
	BCA0433L			1	0%			12	100%
	BCA0434	1	100%			2	50%	11	100%
	BCA0434L	1	100%					12	100%
	BCA0435			1	100%	10	100%	9	100%
	BCA0435L			1	100%	10	100%	9	100%
	BCA0450L	13	100%	19	89%	33	82%	7	86%
	BCA0451	13	100%	35	91%	12	58%	7	100%
	BCA0451L	13	100%	36	94%	12	58%	7	100%
	BCA0452	22	82%	22	68%	7	100%	15	100%
	BCA0452L	22	86%	33	82%	7	100%	16	100%
	BCA0453L	22	95%	12	83%	14	100%	13	100%
	BCA0454	21	100%	10	100%	24	67%		
	BCA0454L	21	100%	10	100%	24	75%		
	BCA0455	13	85%	16	88%	15	93%	6	100%
	BCA0455L	13	92%	15	93%	15	93%	6	100%
	BCA0456L	1	100%	21	100%	10	100%	9	100%
	BCA0457			20	95%	10	90%	23	100%
	BCA0457L	1	100%	20	95%	10	90%	23	100%
	BCA0458	22	86%	10	100%	9	89%	14	100%
	BCA0458L	22	95%	10	100%	9	100%	14	100%
	BCA0459L			1	100%	16	100%	9	100%
	<b>Total</b>	<b>223</b>	<b>93%</b>	<b>328</b>	<b>91%</b>	<b>293</b>	<b>88%</b>	<b>258</b>	<b>100%</b>

 Indicates a success rate of 90% or higher  
 Indicates a success rate between 70% and 89%  
 Indicates a success rate below 70%

Source: IR Program Assessment Data

## Course Success Rate By Race/Ethnicity (1 of 2)

Program, Course, & Race/Ethnicity	2018-2019		2019-2020	
	Enrolled	Success Rate	Enrolled	Success Rate
1070 - Plumbers - Union	293	88%	258	100%
BCA0431	13	100%	9	100%
Hispanic	1	100%	1	100%
Two or More Races			1	100%
White	11	100%	7	100%
BCA0431L	13	100%	9	100%
Hispanic	1	100%	1	100%
Two or More Races			1	100%
White	11	100%	7	100%
BCA0432	9	100%	9	100%
Unknown			1	100%
White	7	100%	8	100%
BCA0432L	9	100%	9	100%
Unknown			1	100%
White	7	100%	8	100%
BCA0433L			12	100%
Black			1	100%
Hispanic/Latino			1	100%
Unknown			1	100%
White			9	100%
BCA0434	2	50%	11	100%
Black			1	100%
Hispanic/Latino			1	100%
White			9	100%
BCA0434L			12	100%
Black			1	100%
Hispanic/Latino			1	100%
Unknown			1	100%
White			9	100%
BCA0435	10	100%	9	100%
Hispanic	1	100%	1	100%
Two or More Races			1	100%
White	9	100%	7	100%

Program, Course, & Race/Ethnicity	2018-2019		2019-2020	
	Enrolled	Success Rate	Enrolled	Success Rate
BCA0435L	10	100%	9	100%
Hispanic			1	100%
Two or More Races			1	100%
White	9	100%	7	100%
BCA0450L	33	82%	7	86%
Black	1	100%	1	100%
Hispanic	4	75%	1	100%
White	26	81%	5	80%
BCA0451	12	58%	7	100%
Black			1	100%
Hispanic	2	100%	1	100%
White	8	50%	5	100%
BCA0451L	12	58%	7	100%
Black			1	100%
Hispanic	2	100%	1	100%
White	8	50%	5	100%
BCA0452	7	100%	15	100%
Two or More Races			2	100%
Unknown			2	100%
White	5	100%	11	100%
BCA0452L	7	100%	16	100%
Two or More Races			2	100%
Unknown			2	100%
White	5	100%	12	100%
BCA0453L	14	100%	13	100%
Asian			1	100%
Hispanic	1	100%	2	100%
White	11	100%	10	100%

## Course Success Rate By Race/Ethnicity (2 of 2)

Program, Course, & Race/Ethnicity	2018-2019		2019-2020	
	Enrolled	Success Rate	Enrolled	Success Rate
<b>BCA0454</b>	24	67%		
Am. Ind.	1	100%		
Black	1	100%		
Hispanic	2	50%		
Unknown	1	100%		
White	19	63%		
<b>BCA0454L</b>	24	75%		
Am. Ind.	1	100%		
Black	1	100%		
Hispanic	2	50%		
Unknown	1	100%		
White	19	74%		
<b>BCA0455</b>	15	93%	6	100%
Black	1	100%	1	100%
Hispanic	3	67%	1	100%
White	10	100%	4	100%
<b>BCA0455L</b>	15	93%	6	100%
Black	1	100%	1	100%
Hispanic	3	67%	1	100%
White	10	100%	4	100%
<b>BCA0456L</b>	10	100%	9	100%
Am. Ind.			1	100%
Unknown	1	100%	1	100%
White	7	100%	7	100%
<b>BCA0457</b>	10	90%	23	100%
Am. Ind.			1	100%
Asian			1	100%
Black			1	100%
Hispanic	1	100%	2	100%
Unknown	1	0%	1	100%
White	7	100%	17	100%

Program, Course, & Race/Ethnicity	2018-2019		2019-2020	
	Enrolled	Success Rate	Enrolled	Success Rate
<b>BCA0457L</b>	10	90%	23	100%
Am. Ind.			1	100%
Asian			1	100%
Black			1	100%
Hispanic	1	100%	2	100%
Unknown	1	0%	1	100%
White	7	100%	17	100%
<b>BCA0458</b>	9	89%	14	100%
Asian			1	100%
Black			1	100%
Hispanic			2	100%
White	9	100%	10	100%
<b>BCA0458L</b>	1	100%	14	100%
Asian			1	100%
Black			1	100%
Hispanic			2	100%
White	16	100%	10	100%
<b>BCA0459L</b>	2	100%	9	100%
Hispanic	1	100%	1	100%
Two or More Races			1	100%
White	293	88%	7	100%

Indicates a success rate of 90% or higher

Indicates a success rate between 70% and 89%

Indicates a success rate below 70%

## Course Success Rate By Race and Ethnicity

	2018-2019		2019-2020	
Race/Ethnicity	Enrolled	Success Rate	Enrolled	Success Rate
Am. Ind	5	100%	3	100%
Asian	5	100%	5	100%
Black	11	100%	12	100%
Hispanic	31	84%	23	100%
Two or More Races	5	100%	9	100%
Unknown	14	64%	11	100%
White	222	88%	195	99%
<b>Grand Total</b>	<b>293</b>	<b>88%</b>	<b>258</b>	<b>100%</b>

■ Indicates a success rate of 90% or higher  
■ Indicates a success rate between 70% and 89%  
■ Indicates a success rate below 70%

# Civitas

